

Amendments to the Claims:

The listing of the claims below will replace all prior versions and listing of claims in this application.

Listing of Claims:

1. (CURRENTLY AMENDED) A composition of matter that comprises a library of nucleic acid analytes, and an array of nucleic acids, wherein said library comprises diverse nucleic acid analytes which comprise (i) an inherent universal detection target (UDT) comprising at least one conserved sequence present in said diverse nucleic acid analytes, and (ii) a universal detection element (UDE), said UDE being attached to said UDT, said nucleic acid analytes being hybridized to an said array of nucleic acids, and said array of nucleic acids being fixed or immobilized to a solid support, wherein said analytes comprise an inherent universal detection target (UDT), and a universal detection element (UDE) attached to said UDT, wherein said UDE generates a signal indicating the presence or quantity of said diverse nucleic acid analytes, or by means of said attachment of said UDE to said UDT.
2. (CURRENTLY AMENDED) The composition of claim 1, wherein said library of nucleic acid analytes is derived isolated from a biological source selected from the group consisting of comprising organs, tissues and or cells.
3. (CURRENTLY AMENDED) The composition of claim 1, wherein said nucleic acid analytes are selected from the group consisting of comprise genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA and or a combination of any of the foregoing.

4. (CURRENTLY AMENDED) The composition of claim 1, wherein said nucleic acid array ~~is selected from the group consisting of~~ comprises DNA, RNA, and or analogs thereof.

5. (PREVIOUSLY PRESENTED) The composition of claim 4, wherein said analogs comprise PNA.

6. (PREVIOUSLY PRESENTED) The composition of claims 4 or 5, wherein said nucleic acids or analogs are modified on any one of the sugar, phosphate or base moieties.

7. (PREVIOUSLY PRESENTED) The composition of claim 1, wherein said solid support is porous or non-porous.

8. (CURRENTLY AMENDED) The composition of claim 7, wherein said porous solid support ~~is selected from the group consisting of~~ comprises polyacrylamide and or agarose.

9. (PREVIOUSLY PRESENTED) The composition of claim 7, wherein said non-porous solid support comprises glass or plastic.

10. (PREVIOUSLY PRESENTED) The composition of claim 1, wherein said solid support is transparent, translucent, opaque or reflective.

11. (PREVIOUSLY PRESENTED) The composition of claim 1, wherein said nucleic acids are directly or indirectly fixed or immobilized to said solid support.

12. (PREVIOUSLY PRESENTED) The composition of claim 11, wherein said nucleic acids are indirectly fixed or immobilized to said solid support by means of a chemical linker or linkage arm or a linkage arm.

13. (CURRENTLY AMENDED) The composition of claim 1, wherein said inherent UDT ~~is selected from the group consisting of~~ comprises 3' polyA segments, 5' caps, secondary structures, consensus sequences ~~and~~ or a combination of any of the foregoing.

14. (CURRENTLY AMENDED) The composition of claim 13, wherein said consensus sequences ~~is selected from the group consisting of~~ comprises signal sequences for polyA addition, splicing elements, multicopy repeats ~~and~~ or a combination of any of the foregoing.

15. (CURRENTLY AMENDED) The composition of claim 1, wherein said UDE is ~~selected from the group consisting of~~ comprises nucleic acids, nucleic acid analogs, polypeptides, polysaccharides, synthetic polymers ~~and~~ or a combination of any of the foregoing.

16. (PREVIOUSLY PRESENTED) The composition of claim 4, wherein said analogs comprise PNA.

17. (PREVIOUSLY PRESENTED) The composition of claim 1, wherein said UDE generates a signal directly or indirectly.

18. (CURRENTLY AMENDED) The composition of claim 17, wherein said direct signal generation ~~is selected from the group consisting of~~ comprises a fluorescent compound, a phosphorescent compound, a chemiluminescent compound, a chelating compound, an electron dense compound, a magnetic compound, an intercalating compound, an energy transfer compound ~~and or~~ or a combination of any of the foregoing.

19. (CURRENTLY AMENDED) The composition of claim 17, wherein said indirect signal generation ~~is selected from the group consisting of~~ comprises an antibody, an antigen, a hapten, a receptor, a hormone, a ligand, an enzyme ~~and or~~ or a combination of any of the foregoing.

20. (CURRENTLY AMENDED) The composition of claim 19, wherein said enzyme catalyzes a reaction ~~selected from the group consisting of~~ comprises a fluorogenic reaction, a chromogenic reaction ~~and or~~ or a chemiluminescent reaction.

21. (CURRENTLY AMENDED) A composition of matter that comprises a library of nucleic acid analytes, and an array of nucleic acids, wherein said library comprises diverse nucleic acid analytes which comprise (i) a non-inherent universal detection target (UDT) comprising at least one conserved sequence present in said diverse nucleic acid analytes, and (ii) a universal detection element (UDE), said UDE being attached to said UDT, said nucleic acid analytes being hybridized to an said array of nucleic acids, and said array of nucleic acids being fixed or immobilized to a solid support, wherein said analytes comprise an non-inherent universal detection target (UDT), and a universal detection element (UDE) attached to said UDT, wherein said UDE generates a signal indicating the presence or quantity of said diverse nucleic acid analytes, or by means of said attachment of said UDE to said UDT.

Rule 1.126

22
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(CURRENTLY AMENDED) A composition of matter that comprises a library of nucleic acid analytes, said nucleic acid analytes being hybridized to an array of nucleic acids, said nucleic acids being fixed or immobilized to a solid support, wherein said nucleic acid analytes comprise a non-inherent universal detection target (UDT) and a universal detection element (UDE) hybridized to said UDT, wherein said UDE generates a signal directly or indirectly to detect the presence or quantity of said nucleic acid analytes.

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(CURRENTLY AMENDED) The composition of claim 21, wherein said library of nucleic acid analytes is derived isolated from a biological source ~~selected from the group consisting of~~ comprising organs, tissues and or cells.

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(CURRENTLY AMENDED) The composition of claim 21, wherein said nucleic acid analytes ~~are selected from the group consisting of~~ genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA and or a combination of any of the foregoing.

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(CURRENTLY AMENDED) The composition of claim 21, wherein said nucleic acid array is ~~selected from the group consisting of~~ comprises DNA, RNA and or analogs thereof.

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(PREVIOUSLY PRESENTED) The composition of claim 24, wherein said analogs comprise PNA.

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(PREVIOUSLY PRESENTED) The composition of claims 24 or 25, wherein said nucleic acids or analogs are modified on any one of the sugar, phosphate or base moieties.

Rule 1.126

28

27. (PREVIOUSLY PRESENTED) The composition of claim 21, wherein said solid support is porous or non-porous.

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28. (CURRENTLY AMENDED) The composition of claim 27, wherein said porous solid support ~~is selected from the group consisting of~~ comprises polyacrylamide and or agarose.

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29. (PREVIOUSLY PRESENTED) The composition of claim 27, wherein said non-porous solid support comprises glass or plastic.

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30. (PREVIOUSLY PRESENTED) The composition of claim 21, wherein said solid support is transparent, translucent, opaque or reflective.

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31. (PREVIOUSLY PRESENTED) The composition of claim 21, wherein said nucleic acids are directly or indirectly fixed or immobilized to said solid support.

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32. (PREVIOUSLY PRESENTED) The composition of claim 31, wherein said nucleic acids are indirectly fixed or immobilized to said solid support by means of a chemical linker or linkage arm.

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33. (PREVIOUSLY PRESENTED) The composition of claim 21, wherein said non-inherent universal detection target (UDT) comprises homopolymeric sequences.

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34. (PREVIOUSLY PRESENTED) The composition of claim of 21, wherein said non-inherent universal detection target (UDT) comprises heteropolymeric sequences.

Office Action -- October 29, 2004)

Rule 1.126 36

35. (CURRENTLY AMENDED) The composition of claim 21, wherein said UDE is ~~selected from the group consisting of~~ comprises nucleic acids, nucleic acid analogs ~~and or~~ or modified forms thereof.

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36. (PREVIOUSLY PRESENTED) The composition of claim 35, wherein said analogs comprise PNA.

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37. (PREVIOUSLY PRESENTED) The composition of claim 21, wherein said UDE generates a signal directly or indirectly.

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38. (CURRENTLY AMENDED) The composition of claim 37, wherein said direct signal generation is ~~selected from the group consisting of~~ comprises a fluorescent compound, a phosphorescent compound, a chemiluminescent compound, a chelating compound, an electron dense compound, a magnetic compound, an intercalating compound, an energy transfer compound ~~and or~~ or a combination of any of the foregoing.

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39. (CURRENTLY AMENDED) The composition of claim 37, wherein said indirect signal generation is ~~selected from the group consisting of~~ comprises an antibody, an antigen, a hapten, a receptor, a hormone, a ligand, an enzyme ~~and or~~ or a combination of any of the foregoing.

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40. (CURRENTLY AMENDED) The composition of claim 39, wherein said enzyme catalyzes a reaction ~~selected from the group consisting of~~ comprises a fluorogenic reaction, a chromogenic reaction ~~and or~~ or a chemiluminescent reaction.

42 453

Claims ~~41-952~~ (CANCELED).

Office Action -- October 29, 2004)

Rule 1.126
954

953. (NEW) The composition of claim 1, wherein said nucleic acid analytes comprise DNA or RNA copies of genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA or combinations thereof.

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954. (NEW) The composition of claim 21, wherein said nucleic acid analytes comprise DNA or RNA copies of genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA or combinations thereof.

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